



3D Printer Hot End Display Model

Maxxeshop3D

branded educational product sheet

Maxxeshop3D logo edition

PRODUCT OVERVIEW

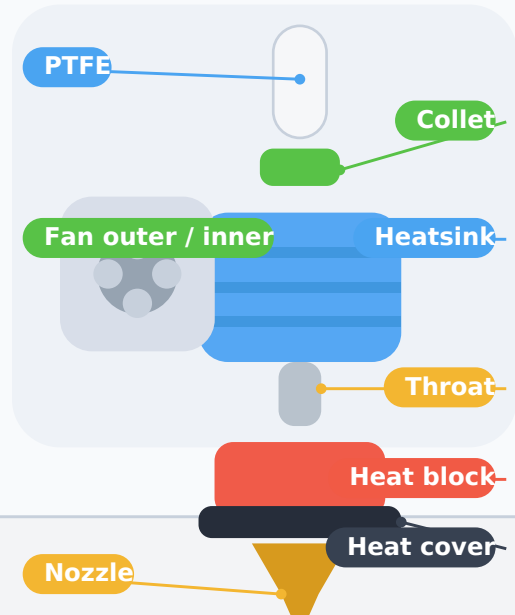
Exploded hotend teaching model

A cutaway hotend model with separate printable parts. The source presents it as a display and teaching aid that can be printed or painted in different colors, then assembled to help explain how a 3D printer hotend works.

Educational

Paintable

CUTAWAY DIAGRAM



Source highlights

USE CASE

Show how a hotend works

FORMAT

Separate STL parts

FINISH

Print or paint by part

LICENSE

Public domain

BUILD AND PRESENTATION NOTES

- Separate parts make it easier to explain the function of each hotend component during demos, classes, or display setups.
- The source explicitly suggests using different colors or paint to distinguish internal and external parts after printing.
- The original listing frames the model as a community-facing educational prop rather than a functional hotend component.



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Parts inventory and licensing

same Maxxeshop3D identity with attached logo

MODEL FILES

Included part files

ptfe.stl

collet.stl

heatsink.stl

heatblock.stl

fan_outer.stl

fan_inner.stl

throat.stl

heatcover.stl

nozzle.stl

COMPONENT GUIDE

What each file represents

- PTFE + collet - upper feed path pieces.
- Heatsink + throat - cold-side body and transition section.
- Heat block + nozzle - hot-side area used to explain melting and extrusion.
- Fan inner + fan outer + heat cover - enclosure and cooling context pieces.

Presentation-oriented summary only - not a functional engineering spec or build manual.

POSITIONING

Best for demos and displays

- Great for classrooms, fairs, workshops, or showroom explanations.
- Useful when viewers need to understand part names and physical relationships at a glance.
- The source encourages sharing more about 3D printing with new audiences.

LICENSE NOTE

Public domain source

- The attached PDF states the model is released under a Public Domain dedication.
- The source also marks sharing, remixing, and commercial use as allowed.
- This rewrite preserves the product facts while replacing the original visual theme with Maxxeshop3D branding.

Branding note

Original marketplace visuals and creator promotional links have been removed. This version keeps the model title, purpose, file list, and license information in a clean Maxxeshop3D presentation.